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**Denali Commission Financial Assistance Award Number 01508-00  
Quarter 2 FY2020 Narrative Report****Mertarvik Town Site Development and Sanitation Facility Design****Project Accomplishments****Geotechnical Investigation**

This project is complete.

**Water Treatment and Wastewater Preliminary Engineering Report (PER)**

During the previous quarter, progress continued towards a 100% PER.

During the next Quarter, a 100% PER is expected to be completed and approved. An updated PER will be uploaded into the Sanitation Deficiencies System.

**Water Distribution and Waste Water Collection PER**

During the previous quarter, progress continued towards a 100% PER.

During the next Quarter, a 100% PER is expected to be completed and approved. An updated PER will be uploaded into the Sanitation Deficiencies System.

**Landfill PER and Design**

During the previous quarter, ANTHC produced a landfill technical memo, addressing the current deficiencies with the facility. It includes recommendations to bring the facility up to operating compliance as well as the full phase one design, with cost estimates. The technical memo was determined to be the more appropriate evaluation document for the Landfill by the latest guidelines of the Sanitation Deficiency System.

This project is complete.

**Project Problems**

Due to accelerated funding acquisition, newly identified site conditions, and the resulting significant changes to development planning in Mertarvik, production of the Preliminary Engineering Reports continues to be delayed. ANTHC plans to complete PER's by the end of June, 2020.

**Newtok Relocation: Award #1508 Amendment #02****Program Management**

During the previous quarter, ANTHC coordinated regularly with the Newtok Village and relocated residents. ANTHC worked with residents to identify any issues or concerns with their new homes and

continued to train and check-in with residents on use and maintenance of the Portable Alternative Sanitation Systems. ANTHC trainers traveled to the site in January to assess comprehension of the system and ensure no lines had frozen. While visiting every home, the team noted any UICC warranty issues mentioned by community members and UICC followed up with the homes.

During the previous Quarter, ANTHC and the master builder participated in weekly design and construction coordination meetings. Most of the coordination with the master builder included completion of tasks for handover of facilities to the Newtok Village. In addition, ANTHC participated in weekly Newtok coordination calls with the NVC and the village's attorneys, accounting support, and engineering support.

ANTHC and the Newtok Village decided in 2019 Quarter 4, to reduce ANTHC's future involvement in development of Mertarvik and to begin the process of transferring responsibility for relocation coordination from ANTHC to Newtok Village Council. It was decided that ANTHC would complete existing commitments for development of Mertarvik: PWP's #31 and #32, and fulfill warranty obligations. ANTHC will additionally continue to support Newtok Village and provide technical assistance on an as-requested basis considering ANTHC availability. Newtok Village and ANTHC acknowledged the declining resources available to ANTHC to perform relocation coordination and planning services upon the conclusion of the Denali Commission Award #1408. Newtok Village acknowledged that Newtok Village intends to oversee construction of housing and infrastructure projects beginning in 2020 outside of Project Work Plan's #31 and #32, and would not plan to provide funding to ANTHC to develop any work outside of existing commitments.

In the previous quarter, ANTHC executed created a Transfer Agreement with the tribe. It outlines the property, facilities, and warranty transferred to the NVC from ANTHC upon project completion. In the next quarter, the agreement will be finalized. Warranty documentation, designs, permits, manuals, record drawings, inventory, and other closeout documentation for all PWP projects were gathered and organized. In the next quarter, ANTHC anticipates providing all of this to the community.

Other deliverables ANTHC will produce in the next quarter include a revision to the Mertarvik Master Implementation plan and a finalized master water and sewer plan. ANTHC will edit the implementation plan to reflect progress on the relocation and secured funding. The master water and sewer plan provides guidance on the multiple PER's produced under this award. These documents will be provided to the tribe and other project partners.

ANTHC continued to work with relocation partners to define, plan, and prepare for services in Mertarvik. This included coordination with LKSD on school service, YKHC on health care service, GCI on telecommunication service, the IRT for a potential 2021 construction training mission, regional airlines and the FAA for transportation service, and many other non-profit, tribal, state, and federal groups. However, in the next quarter, agency coordination responsibilities will be transferred to the Newtok

Village. ANTHC will complete weekly coordination duties with tribal partners to ensure a successful transfer.

The Newtok Planning Group meeting planned for April was canceled due to unsafe conditions from the advent of COVID-19.

A project close-out and lessons learned meeting was held with the master builder. In addition, the team discussed future and potential collaboration efforts. The lessons learned discussed in this meeting will inform a white paper on relocation which will be drafted in the next quarter for provision to the Denali Commission

### **Design and Construction**

#### Site Investigation

##### Geophysics (PWP #1)

No additional geophysics work was conducted in the previous quarter.

##### Wetlands Re-Delineation and permitting (PWP #1, PWP #27)

SWPPP field measures are completed. In the next quarter, the SWPPP will be transferred to the tribe.

#### Design Assist and Construction Management of Mertarvik

##### Construction Camp (PWP #13, PWP #17)

UICC continued provision of camp services to all entities requiring stays in Mertarvik until camp closure in March. UICC sent ANTHC the final project invoice.

UICC provided electrical as-builts, camp winterization procedures, and other important documents for handover to the Newtok Village.

##### Design Assist (PWP #5)

UICC conducted design assist efforts in the previous quarter for late summer 2020 projects, including heat recovery and barge landing improvements.

During the next quarter, this project will be closed.

##### On Site Inspection (PWP #23)

R&M completed their onsite inspection work in November 2019.

During the previous quarter, the final invoice was submitted and the contract closed. This project is complete.

## Quarry Development (PWP #2, PWP #14)

In the previous quarter, ANTHC stockpiled leftover gravel materials for use in 2020 construction projects, including completion of 2019 construction punch list tasks.

## Transportation Infrastructure

### Quarry Road – Emergency Landing Strip (PWP #3, PWP #10)

Final billing for the project was provided and the project closed. ANTHC finalized a Certification of Substantial Completion for the project. ANTHC is working with the FAA and other partners to identify webcam and weather station solutions to improve information available for flight operators in Mertarvik.

### Barge Landing Road (PWP #4)

Final billing for the project was provided and the project closed. For the community transfer, UICC provided quantities of leftover riprap stored at the barge landing. ANTHC finalized a Certification of Substantial Completion for the project.

### Town site Roads (PWP #8, PWP #20)

For the community transfer, UICC provided snow removal tips and documentation of training with local residents. UICC was not able to complete final grading and topping of the road before demobilizing due to winter conditions. This work will be completed in summer 2020 at which point final billing for the project will be received and the contract closed.

Any additional work to extend the middle road is anticipated to be completed by the NVC with funding acquired and managed by the community.

No work is anticipated on this project in the following quarter.

## Energy Infrastructure

### Power Plant (PWP #7)

Final billing for the project was provided and the project closed. For the community transfer, UICC provided an inventory of procured parts, warranty information, O&M information, and redlines. HDL produced Record Drawings and ANTHC finalized the Certification of Substantial Completion.

### Bulk Fuel (PWP #25)

In the previous quarter, required Oil Spill Prevention and Response plan paperwork was completed, allowing the CA services term contractor to create a Facility Response plan, Coast Guard Marine Transfer Operations Manual, and EPA SPCC Plan.

The construction contractor was unable to complete several punchlist tasks on the bulk fuel farm before demobilizing, including painting of the pipes, installation of permanent signage, installation of a permanent blind for flange, and installation of a catwalk and ladder. These tasks are slated for

completion in summer 2020, at which point final billing for the project will be received and the contract closed.

For the community transfer, UICC provided a warranty letter, signed training form, and redline drawings. HDL produced Record Drawings and ANTHC finalized a Substantial Completion Certification.

No work is anticipated on this project in the following quarter.

Electric Distribution System (PWP #7, PWP #24)

Final billing for the contract was received and the project closed.

### Community Facility Infrastructure

MEC (PWP #26)

During the previous quarter, the contractor installed a washer and dryer in the MEC and completed final punchlist tasks. As-Builts were provided to the designer for the production of Record Drawings. For the community closure, UICC provided warranty and O&M information and inventory of leftover steel and timber. ANTHC finalized a Certificate of Substantial Completion.

In the next quarter, ANTHC anticipates the receipt of Record Drawings, completion of final billing, and closure of the contract.

Equipment Shop (PWP #11, PWP #18)

ANTHC received final billing and closed the contract. All materials will be available for the Newtok Village to complete this project once dedicated funding is acquired.

Health Clinic (PWP #29)

During the previous quarter, construction of the clinic was completed. UICC installed the firewall in the adjacent laundry facility to meet Fire Marshal approval. For the community transfer, UICC provided clinic redlines and clinic warranty information. ANTHC finalized a Certificate of Substantial Completion.

During the next quarter, ANTHC anticipates occupancy of the facility by YKHC with YKHC installing equipment and completing a lease with the Newtok Village. However, this may be delayed due to travel restrictions from COVID-19.

### Housing

House Pads (PWP #22)

In the previous quarter, no work was completed on the house pads in Mertarvik.

In the next quarter, no additional work is anticipated on this project. It remains ANTHC's strong recommendation that the NVC address the steep house pads with use of stockpiled overburden materials.

Housing (PWP #22, PWP #28)

During the previous quarter, minor warranty items were identified and addressed by the Master Builder while still on site. ANTHC received final billing for the project and closed the contract. ANTHC finalized a Certificate of Substantial Completion for the project and UICC provided warranty and O&M information.

In the next quarter, ANTHC anticipates finalizing a document on the housing project's ten-year structural warranty to assist with handover of all facilities and warranties to the tribe. Additionally, it is anticipated that the construction administration contract will be finalized and closed.

PWP #31 SIP Home Electrical Repairs

In the previous quarter, the project was billed to the Newtok Village. ANTHC anticipates the receipt of reimbursement in the next quarter.

**Water and Sewer Infrastructure**2019 Construction Season Water and Sewer Service (PWP#6, PWP #21)

In the previous quarter, community operators pumped the MBR for the first time with training and supervision from UICC. Final billing was received and the project contract closed. UICC provided redlines and a sample for laboratory analysis.

Water Treatment and Distribution (PWP #6, #16)

In the previous quarter, the Newtok Village sent operators to operator certification training in Nome. ANTHC provided additional operator training to the Newtok Village water plant operators during a site visit in February.

The water plant progressed towards final completion. UICC was unable to complete a few punch list items before demobilization from the site. Due to the advent of COVID-19 and travel restrictions to the community, an electrician was unable to travel to Mertarvik to complete the electrical scope of work on the facility. These final punch list tasks are slated for completion in summer 2020.

UICC provided redlines of the water plant facility. For the community transfer, UICC provided O&M, inventory, and warranty information. ANTHC finalized a Certificate of Substantial Completion.

In the next quarter, ANTHC anticipates the receipt of Record Drawings from the engineering contractor. No additional construction work is anticipated on this project in the next quarter.

Sewer Collection and Treatment (PWP #6)

In the previous quarter, progress towards 100% design of the sewage lagoon was made.

During the next quarter, ANTHC anticipates holding a design review meeting and finalizing the sewage lagoon design.

In-Home Sanitation (P.A.S.S.) (PWP #15)

In the previous quarter, ANTHC conducted an additional training trip and homeowner check-in and received final billing of this project.

In the next quarter, ANTHC will execute a Substantial Completion Certification and follow up with homeowners via telephone on continued use and maintenance of the systems.

#### Landfill (PWP #19)

In the previous quarter, ANTHC produced a technical memo that addresses the current deficiencies with the facility. It includes recommendations to bring the facility up to operating compliance, as well as the full phase one design, with cost estimates.

No additional work is anticipated on the landfill project.

#### PWP #30 Barge Landing Improvements

In the previous quarter, ANTHC finalized a 35% design approach for the barge landing improvement project.

In the next quarter, ANTHC anticipates development of a project work plan with a phased approach to construction for submittal to the Denali Commission. ANTHC anticipates 100% completion of the Phase 1 design for this project during the next funding cycle. Critical field investigation requirements, specifically hydrographic survey, may be delayed due to travel restrictions for COVID-19.

#### PWP #32 Heat Recovery Design

In the previous quarter, ANTHC completed 35% design of this project and held the design-review meeting.

In the next quarter, ANTHC anticipates completion of 100% design. ANTHC anticipates revising the PWP once construction cost estimates are completed. The revised PWP will include contribution of Denali Commission procured materials or funding, if available.

#### **Project Problems**

As previously communicated to the Newtok Village and to the Denali Commission, ANTHC is unable to fulfill any cash match requirements for Newtok Village projects in 2020 or beyond with funding from the Denali Commission award. ANTHC may be able to provide match by leftover materials previously procured by ANTHC with Denali Commission funding.

With the advent of COVID-19, the Newtok Village Council imposed travel restrictions into Mertarvik. An electrician was unable to fly to site to complete the scope of work on the water plant facility. This work is delayed until travel restrictions are lifted. In addition, ANTHC anticipates that 2020 construction

projects and completion of 2019 punch list tasks will be delayed until late summer or fall due to COVID-19 restrictions.

In the previous quarter, ANTHC continued to coordinate provision of services in Mertarvik with project partners. YKHC and LKSD have been active and supportive in engaging in provision of health care and education in Mertarvik. GCI has installed telecommunication, specifically internet services to the MEC and Clinic facilities, and Rural Broad Band services for residents. ANTHC continued efforts to secure scheduled airfare services, postal services, and other key services in Mertarvik; however, the ultimate provision of these services is outside of ANTHC's control.

#### Milestone Status – Mertarvik Town Site Development and Sanitation Facility Design

Milestone	Planned	Actual		Total Cost	
	Start Date	End Date	Start Date	End Date	At Completion
Town Site Design - 65%	11/15/2016	2/28/2017	11/16/2016	3/17/2017	\$130,0000
Town Site Final Design	3/1/2017	5/31/2017	3/18/2017	02/2018	\$190,365
Landfill Design - 65%	6/1/2017	8/31/2017	03/2018	05/2018	\$35,996
Landfill Final Design	9/1/2017	12/31/2017	05/2018	11/2018	\$57,887
Washeteria Design – 65%	11/15/2016	6/30/2017	6/27/2017	9/1/2017	\$0.00
Washeteria Final Design	7/1/2017	12/31/2017			\$0.00
Water Distribution/Wastewater Collection Design -	11/15/2017	8/31/2018	06/27/2017	04/30/2020	\$0.00
Water Distribution/Wastewater Collection Final	09/01/2017	8/31/2018	09/01/2017		\$0.00
Project Close-out	1/1/2018	12/31/2019			\$0.00

#### Milestone Status – Newtok Relocation <sup>1</sup>

	Planned	Actual		Total Cost	
	Start Date	End Date	Start Date	End Date	At Completion
<b>Amendment #02 Milestones</b>	<b>Date</b>	<b>Date</b>	<b>Date</b>	<b>Date</b>	
Master Implementation Plan					
Project Work Plan #1: Aerial Survey, Geophysics, Wetlands	8/15/18	11/15/18	8/15/18	3/31/19	\$ 385,456



Re-Delineation, General Site Assessment					
Project Work Plan #2: 2018 Gravel Production	8/1/18	6/1/19	8/1/18	6/30/19	\$4,468,098
Project Work Plan #3 Emergency Landing Strip and Haul Road Passing Lane Construction	10/1/18	11/1/18	10/1/18	11/9/19	\$508,342
PWP #4 Barge Landing Road Construction	9/15/18	5/15/19	8/30/18	12/1/19	\$467,500
PWP #5 Design Assist Services	10/1/18	12/31/19	9/21/2018	-	
PWP #6 Phase I Water and Sewer Design	8/15/18	3/31/19	8/15/19	7/30/19	\$520,080
PWP #7 Power Plant and Electric Distribution Phase 1 Construction	11/15/18	10/15/19	10/1/18	11/30/19	\$2,954,611
PWP #8: Town site Roads Design	11/1/18	2/28/19	11/1/18	3/31/19	\$149,595
PWP #9 MEC CA Change Order 1	9/30/18	12/31/18	9/30/18	12/31/18	\$109,023
PWP #10 Emergency Air Strip Extension	11/1/18	5/30/19	11/1/18	12/21/19	\$453,428
PWP #11 Equipment Shop Design	12/15/18	2/15/19	2/15/19	4/5/19	\$120,714
PWP #12 Electric Distribution System Phase II Design	1/4/19	3/31/19	1/4/19	3/31/19	\$23,312
PWP #13 2019 Construction Camp Operations	14/15/19	11/15/19	14/15/19	3/31/20	\$44,397.73
PWP #14 Gravel Order #3	5/15/19	8/1/19	5/31/19	7/15/19	\$2,133,250
PWP #15 PASS Installation	1/25/19	10/15/19	1/6/19	12/21/19	\$983,499
PWP #16 Water Plant and Water Distribution System Phase 1 Construction	3/20/19	10/30/19	3/20/19	-	

PWP #17 2019 Site Mobilization and Camp Set up	3/1/19	6/30/19	3/1/19	12/15/2019	\$777,548
PWP #18 Equipment Shop Construction	6/15/19	9/1/19	3/1/2019	8/15/2019	\$850,500
PWP #19 Phase 1 Landfill Construction	6/15/19	9/15/19	6/15/19	12/15/19	\$698,139
PWP #20 Town site Road Construction	5/1/19	9/15/19	5/15/19	-	
PWP #21 "Pioneering" Water and Wastewater System Construction	2/15/19	06/21/19	2/15/19	1/24/20	\$1,088,726
PWP #22 2019 Housing Design and Construction	12/15/18	10/15/19	3/22/19	11/29/19	\$7,403,213
PWP #23 Mertarvik on Site Inspection	6/1/19	10/30/19	6/1/19	11/15/19	\$283,895
PWP #24 Electrical Distribution Construction	7/1/19	10/1/19	8/15/19	11/1/19	\$332,795
PWP #25 Bulk Fuel	5/1/2019	11/15/2019	5/1/2019	2/28/20	\$1,095,566
PWP #26 MEC Interior Renovations	2/1/2019	11/15/2019	2/1/2019	3/31/20	\$1,434,365
PWP #27 Universal SWPPP	5/15/2019	11/15/2019	5/15/2019	3/31/20	\$57,781
PWP #28 Marie Fairbanks Pad and Relocation	5/15/2019	11/15/2019	5/15/2019	11/1/19	\$30,542
PWP #29 Health Clinic Renovation	6/1/2019	11/15/2019	6/1/2019	3/5/19	\$299,401
PWP #30 Barge Landing Improvements	10/1/2019	4/1/2020	11/1/2019	-	
PWP #31 SIP Home Electrical Improvements	9/1/19	10/1/2019	9/1/2019	10/1/19	\$40,000
PWP #32 Heat Recovery Design	12/1/2019	5/1/2019	1/10/2019	-	